ATTACHMENT A

BORING LOGS AND WELL CONSTRUCTION LOGS

MONITORING WELL COMPLETION SUMMARY

WELL NO.:

GLA-2

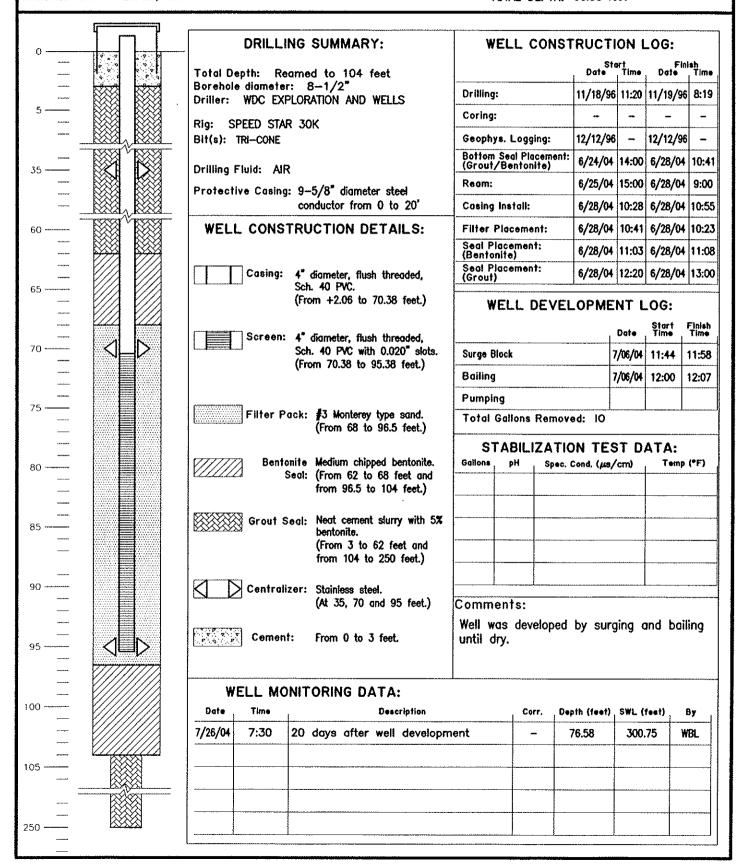
PAGE: 1 OF 1

JOB NO.: 9539

PROJECT: GREGORY CANYON LANDFILL LOCATION: GREGORY CANYON, PALA, CA

LOCATION: GREGORY CANYON, PA INSPECTOR: W. LOPEZ, CHG CHECKED BY: W. LOPEZ, CHG ELEVATION GROUND LEVEL: 377.33 ELEVATION TOP OF CASING: 379.39

DATE STARTED: 6/25/04 DATE FINISHED: 6/28/04 TOTAL DEPTH: 95.38 feet



MONITORING WELL COMPLETION SUMMARY

WELL NO.:

GLA-A

PAGE: 1 OF 1

JOB NO.: 9539
PROJECT: GREGORY CANYON LANDFILL
LOCATION: GREGORY CANYON, PALA, CA
INSPECTOR: W. LOPEZ, CHG
CHECKED BY: W. LOPEZ, CHG

ELEVATION GROUND LEVEL: 377.49
ELEVATION TOP OF CASING: 380.35
DATE STARTED: 7/20/04
DATE FINISHED: 7/21/04
TOTAL DEPTH: 104.4 feet

)		DRIL	LLING SUMMARY:	WELL CO	NSTRUCT	ION L		
		Total Depth:			, Date	art Time	Fin Date	ish Tim
			eter: 8-1/2" EXPLORATION AND WELLS	Drilling:	6/08/04	16:50		1
5				Coring:		_	_	-
			STAR 30K NE / DOWNHOLE HAMMER	Ream:		_	 _	 _
			•	Geophys. Logging:	: 6/11/04	7:30	6/11/04	9:1
		Drilling Fluid:		Casing Install:		-	6/24/04	
		Protective Cas	sing: 9-5/8" diameter steel conductor from 0 to 20'	Filter Placement:		-	6/24/04	+
·		WELL COL	NSTRUCTION DETAILS:	Seal Placement:			6/24/04	-
·		WELL OU.	NSTRUCTION DETAILS.	(Bentonite) Seal Placement:		 	6/24/04	┼
		Cash	الإمرائية المستعلق المستعدد ال	(Grout)	V/4-7/	14.00	0/47/41	10.,
) ——		Casi	Sch. 40 PVC.				<u> </u>	<u></u>
			(From +2.86 to 74.4 feet.)	WELL DE	VELOPME	NT L	_OG:	
-		Soro	. All to the street discounted and			Date	Stort Time	Finis Time
5		Scre	een: 4" diameter, flush threaded, Sch. 40 PVC with 0.020" slots.	Surge Block		7/06/04	 	8:40
			(From 74.4 to 104.4 feet.)	Bailing		7/06/04	 	9:00
				Pumping	· · · · · · · · · · · · · · · · · · ·	7/06/04	 	11:1
)		Filte	er Pack: ∦3 Monterey type sand.	Total Gallons Re			10.20	1 ***
		• • • • •	(From 71.5 to 105 feet.)					
				STABILIZA Gollone pH S	ATION TES Spec. Cond. (418)	_	ATA:	(*F)
5			Bentonite Medium chipped bentonite.	-	opec, cone, proj	/ Crit	1	
		ELLLLA	Sed: (From 63.5 to 71.5 feet.)				-	
		I		1 1			1	
		KXXXXXXX	44 4 atum, 10245, KW	.			 	
)		Grou	ut Seal: Neat cement sturry with 5% bentonite.			:		
)		Grot	ut Seal: Neat cement slurry with 5% bentonite. (From 3 to 63.5 feet.)	(
)			bentonite. (From 3 to 63.5 feet.)	:				
			bentonite.	Comments:				
			bentonite. (From 3 to 63.5 feet.) tralizer: Stainless steel.	Comments: Well was develo	pped by sur	ging,	bailing	and
		Cent	bentonite. (From 3 to 63.5 feet.) tralizer: Stainless steel.	Comments: Well was develo	until visibly	clear	bailing .	and
5		Cent	bentonite. (From 3 to 63.5 feet.) tralizer: Stainless steel. (At 35, 75 and 104 feet.)	Comments: Well was develo	until visibly	clear	bailing	and
5		Cent	bentonite. (From 3 to 63.5 feet.) tralizer: Stainless steel. (At 35, 75 and 104 feet.) ment: From 0 to 3 feet.	Comments: Well was develo	until visibly	clear	bailing	and
5		Cent	bentonite. (From 3 to 63.5 feet.) tralizer: Stainless steel. (At 35, 75 and 104 feet.) ment: From 0 to 3 feet.	Comments: Well was develo	until visibly	clear NTU.	r,	and
		Cent	bentonite. (From 3 to 63.5 feet.) tralizer: Stainless steel. (At 35, 75 and 104 feet.) ment: From 0 to 3 feet. MONITORING DATA: Description	Comments: Well was develo pumping water approximately le	until visibly ess then 5	clear NTU.	(feet)	
		Cent WELL Date Time	bentonite. (From 3 to 63.5 feet.) tralizer: Stainless steel. (At 35, 75 and 104 feet.) ment: From 0 to 3 feet. MONITORING DATA: Description Prior to well construction	Comments: Well was develo pumping water approximately le	until visibly ess then 5 Depth (feet)	clear NTU.	(feet) 2.27 V	Ву
		WELL Date Time 6/11/04 7:15	bentonite. (From 3 to 63.5 feet.) tralizer: Stainless steel. (At 35, 75 and 104 feet.) ment: From 0 to 3 feet. MONITORING DATA: Description Prior to well construction	Comments: Well was develo pumping water approximately le	Depth (feet) 75.22	swl ((feet) 2.27 V	By #BL
)		WELL Date Time 6/11/04 7:15	bentonite. (From 3 to 63.5 feet.) tralizer: Stainless steel. (At 35, 75 and 104 feet.) ment: From 0 to 3 feet. MONITORING DATA: Description Prior to well construction	Comments: Well was develo pumping water approximately le	Depth (feet) 75.22	swl ((feet) 2.27 V	By #BL

MONITORING WELL COMPLETION SUMMARY

WELL NO .:

GLA-B

PAGE: 1 OF 1

JOB NO.: 9539
PROJECT: GREGORY CANYON LANDFILL
LOCATION: GREGORY CANYON, PALA, CA
INSPECTOR: J. HOWER, CEG
CHECKED BY: W. LOPEZ, CHG

ELEVATION GROUND LEVEL: 344.14 ELEVATION TOP OF CASING: 347.04 DATE STARTED: 6/09/04 DATE FINISHED: 6/23/04 TOTAL DEPTH: 91.22 feet

0	DRILLI	NG SUMMARY:	WEI	L CON	STRUCTI	ON L	.OG:	
	Total Depth: 91				Date Ste	rt Time	Fin Date	ieh Time
	Borehole diamete Driller: WDC EX	r: 8-1/2" PLORATION AND WELLS	Drilling:		6/09/04	15:57	6/10/04	10:49
5	Rig: SPEED STA		Coring:		-	-	4	-
	} -	/ DOWNHOLE HAMMER	Ream:		-	į	1	-
10	Drilling Fluid: Alf	?	Geophys.	Logging:	6/11/04	9:30	6/11/04	11:15
	1	; 9-5/8" diameter steel	Casing in	stall:	6/21/04	10:20	6/21/04	10:50
		conductor from 0 to 20'	Filter Plo	cement:	6/21/04	10:52	6/21/04	11:15
40 —	WELL CONS	TRUCTION DETAILS:	Seal Plac (Bentonit		6/21/04	11:27	6/21/04	11:38
			Seal Plac (Grout)	ement:	6/23/04	8:30	6/23/04	9:45
	Casing:							
45		Sch. 40 PVC. (From +2.9 to 51.22 feet.)	WE	II DEV	ELOPME	NT I	OG:	
		· ·	***	0-1	LLVI IIIL			Finish Time
50 ——	Screen:	4" diameter, flush threaded,				Date	Start Time	Time
		Sch. 40 PVC with 0.020" slots. (From 51.22 to 91.22 feet.)	Surge Bloc	k				
			Bailing			5/28/04	15:00	
55 ——			Pumping	Hana Dan	noved: 240	/29/04		16:00
	Filter P	ack: #3 Monterey type sand. (From 47.5 to 91.5 feet.)	10101 60	nons Ren	1046d: 540			
			1		TION TES			æ
60		onite Medium chipped bentonite.	Gallons	pH Sp	ec. Cond. (µa/	сти	Temp	(-7)
	\(\(\lambda \lambda \l	Seal: (From 40.5 to 47.5 feet.)						
65	8X\$X\$X\$X							
	Grout S	Seal: Neat cement sturry with 5% bentonite.						
		(From 3 to 47 feet.)						
70 ——	Central	Izer: Stainless steel.						
		(At 10, 50 and 90 feet.)	Commer	ıts:			***************************************	
					ed during			
75 ——	Concre	ete From 0 to 3 feet.			¹ 28/04 an clear, less			J.
	WELL MO	DNITORING DATA:						
80	Date Time	Description	. ,	Corr.	Depth (feet)			Ву
	6/11/04 8:19	Prior to well construction		-	39.70	304.	.44	AF
85 —	7/06/04 14:30	After well development		-	40.00	304.	.14 ¥	WBL.
90 ——								

MONITORING WELL COMPLETION SUMMARY

WELL NO.:

GLA-C

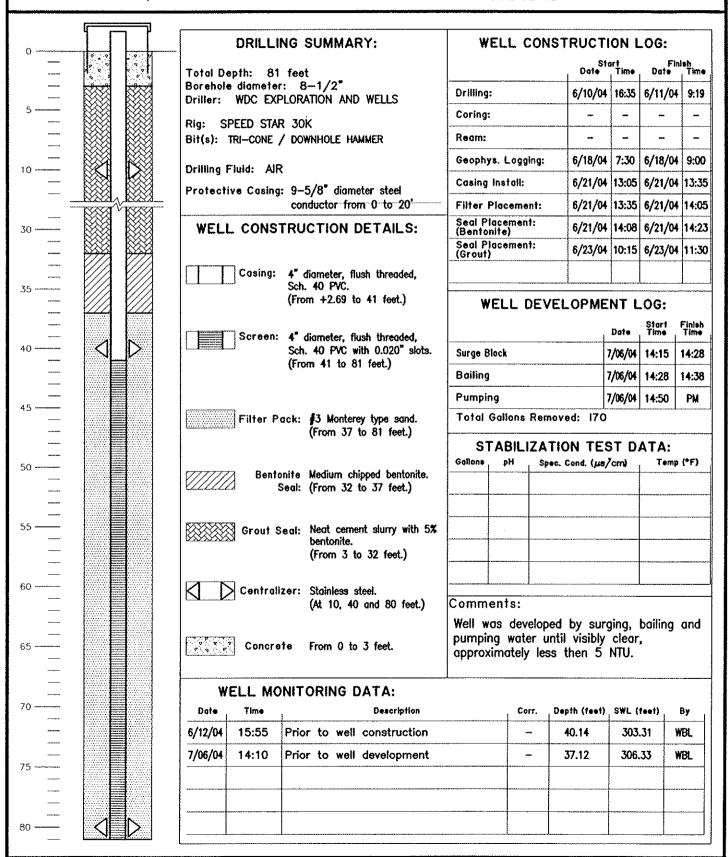
PAGE: 1 OF 1

JOB NO.: 9539

PROJECT: GREGORY CANYON LANDFILL LOCATION: GREGORY CANYON, PALA, CA

INSPECTOR: W. LOPEZ, CHG CHECKED BY: W. LOPEZ, CHG ELEVATION GROUND LEVEL: 340.76 ELEVATION TOP OF CASING: 343.45 DATE STARTED: 6/03/04

DATE STARTED: 6/03/04
DATE FINISHED: 6/03/04
TOTAL DEPTH: 81 feet



MONITORING WELL COMPLETION SUMMARY

WELL NO.:

GLA-D

PAGE: 1 OF 1

JOB NO.: 9539
PROJECT: GREGORY CANYON LANDFILL
LOCATION: GREGORY CANYON, PALA, CA
INSPECTOR: W. LOPEZ, CHG
CHECKED BY: W. LOPEZ, CHG

ELEVATION GROUND LEVEL: 364.77 ELEVATION TOP OF CASING: 367.65 DATE STARTED: 6/07/04 DATE FINISHED: 6/25/04 TOTAL DEPTH: 145.1 feet

0	DRILLING SUMMARY:	WELL CONST	RUCTION	LOG:
	Total Depth: 146.2 feet		Start Date Time	Date Time
	Borehole diameter: 8-1/2" Driller: WDC EXPLORATION AND WELLS	Drilling:	6/07/04 14:25	6/08/04 8:55
5—	Rig: SPEED STAR 30K	Coring:		
- <u> </u>	Bit(s): TRI-CONE / DOWNHOLE HAMMER	Ream:		
40 —	Drilling Fluid: AIR	Geophys. Logging:	6/11/04 13:15	6/11/04 15:15
	Protective Casing: 9-5/8" diameter steel	Casing Install:	6/25/04 7:30	6/25/04 7:45
	conductor from 0 to 20'	Filter Placement:	6/25/04 8:10	
45 —	WELL CONSTRUCTION DETAILS:	Seal Placement: (Bentonite) Seal Placement:	6/25/04 8:45	
- <u> </u>		(Grout)	6/25/04 10:30	6/25/04 11:10
80 —	Casing: 4" diameter, flush threaded, Sch. 40 PVC.			
	(From +2.88 to 95.1 feet.)	WELL DEVEL	OPMENT I	_OG:
	Screen: 4° diameter, flush threaded,		, Date	Start Finish Time Time
85 —	Sch. 40 PVC with 0.020" slots.	Surge Block	7/06/04	13:15 13:25
	(From 95.1 to 145.1 feet.)	Bailing	7/06/04	13:25 13:50
90 —		Pumping		
	Filter Pack: #3 Monterey type sand. (From 90.5 to 146.2 feet.)	Total Gallons Remove	d: 90	
	(1011 30.3 to 140.2 1660.)	STABILIZATIO	N TEST D	ATA:
95 — 🗸 🔻	Bentonite Medium chipped bentonite.	Gallons pH Spec. C	ond. (µs/cm)	Temp (°F)
	Seal: (From 82 to 90.5 feet.)			
100	NAME OF THE PARTY			
	Grout Seal: Neat cement slurry with 5% bentonite.			
	(From 3 to 82 feet.)		.,	
125 —	Centralizer: Stainless steel.			L
	(At 45, 95 and 145 feet.)	Comments:		
		Well was developed until dry.	by surging	and bailing
130 —	Cement: From 0 to 3 feet.			
	WELL MONITORING DATA.			
135	WELL MONITORING DATA: Date Time Description	, Corr. , Dep	th (feet) . SWL :	(feet) By
	6/21/04 11:30 Prior to well construction	-	9.50 305	
	7/05/04 12:15 Prior to well development		0.27 304	
140				
145 —				

MONITORING WELL COMPLETION SUMMARY

WELL NO.:

GLA-G

PAGE: 1 OF 1

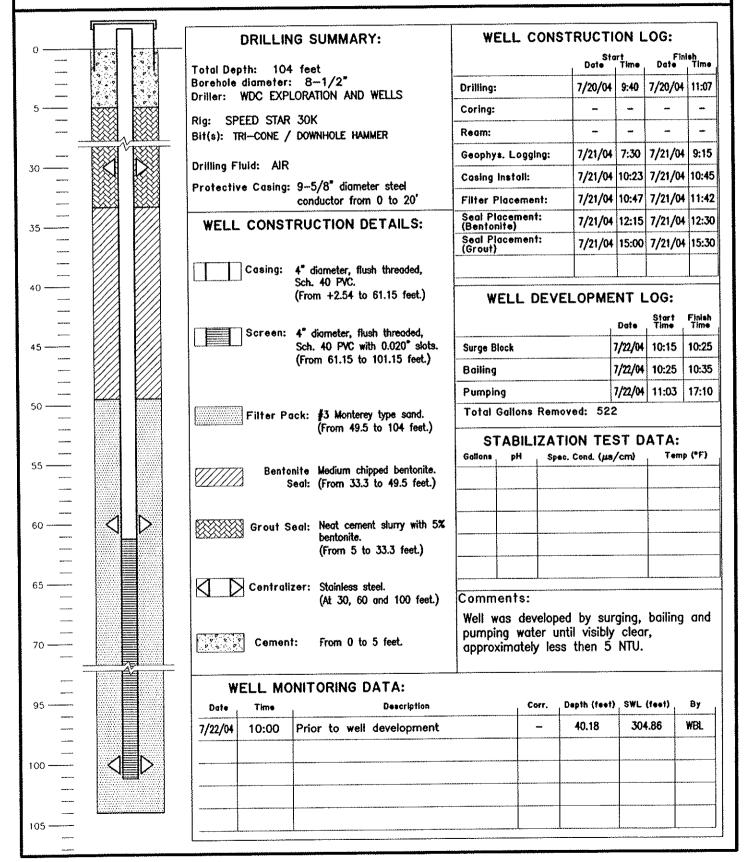
JOB NO.: 9539

PROJECT: GREGORY CANYON LANDFILL LOCATION: GREGORY CANYON, PALA, CA

INSPECTOR: W. LOPEZ, CHG CHECKED BY: W. LOPEZ, CHG ELEVATION GROUND LEVEL: 345.04 ELEVATION TOP OF CASING: 347.58

IG: 347.58 ID: 7/20/04

DATE STARTED: 7/20/04 DATE FINISHED: 7/21/04 TOTAL DEPTH: 101.15 feet



MONITORING WELL COMPLETION SUMMARY

WELL NO .: LUCIO-2R

PAGE: 1 OF 1

JOB NO.: 9539
PROJECT: GREGORY CANYON LANDFILL
LOCATION: GREGORY CANYON, PALA, CA
INSPECTOR: W. LOPEZ, CHG
CHECKED BY: W. LOPEZ, CHG

ELEVATION GROUND LEVEL: ND
ELEVATION TOP OF CASING: ND
DATE STARTED: 6/03/04
DATE FINISHED: 6/03/04
TOTAL DEPTH: 40 feet

	DRILLING SUMMARY:	WELL CONSTRUCT	TION L		
	Total Depth: 50 feet	Date	Start Time	Date Fini	ish Time
	Borehole diameter: 8" Driller: WDC EXPLORATION AND WELLS	Drilling: 6/03/0	34 8:33	6/03/04	9:03
— <i>/////</i> ///////////////////////////////		Coring: -			-
- /// ///	Rig: CME-95 Bit(s): BLADE BIT	Ream: -	-		-
	Date Fluida AIA	Casing Install: 6/03/0	04 9:08	6/03/04	9:10
	Drilling Fluid: NA Protective Casing: AUGER	Filter Placement: 6/03/0	9:10	6/03/04	10:0
	Protective cusing: Acock	Seal Placement: 6/03/0	10:03	6/03/04	10:0
	WELL CONSTRUCTION DETAILS:	<u> </u>)4 10:20	6/03/04	10:4
	Casing: 2" diameter, flush threaded, Sch. 40 PVC. (From +3 to 10 feet.)	WELL DEVELOPM	ENT L	OG:	
	Screen: 2° diameter, flush threaded,		, Date	Start Time	Finisi Time
	Sch. 40 PVC with 0.020" slots.	Surge Block	6/08/04	10:00	10:10
	(From 10 to 40 feet.)	Bailing	6/08/04	 	10:2
		Pumping	6/08/04		11:0
	Filter Pack: #3 Monterey type sand. (From 8 to 50 feet.)	Total Gallons Removed: 15			
	Bentonite Medium chipped bentonite. Seal: (From 3 to 8 feet.)	STABILIZATION TE		ATA: Temp	(°F)
	Concrete Seal: From 0 to 3 feet.				
		Comments:			
		Well was developed by supumping water until visib approximately less then	ly clear		and
******	WELL MONITORING DATA:	0			.
	Bate Time Description	Corr. Depth (fee			By
	6/03/04 9:10 During well construction	- 12.5	-		WBL.
	6/08/04 9:30 Prior to well development	- 12.7		·'	MDL.
	6/08/04 11:00 After well development	- 12.7	1		WBL

MONITORING WELL COMPLETION SUMMARY

WELL NO .: SLRMWD-34R

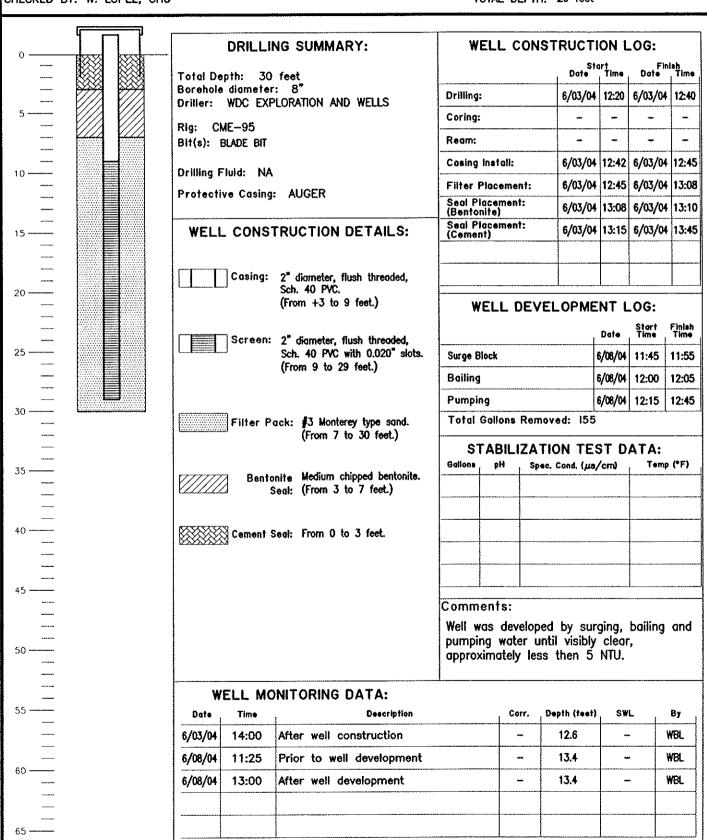
PAGE: 1 OF 1

JOB NO.: 9539 PROJECT: GREGORY CANYON LANDFILL LOCATION: GREGORY CANYON, PALA, CA

INSPECTOR: W. LOPEZ, CHG CHECKED BY: W. LOPEZ, CHG

ELEVATION GROUND LEVEL: ND ELEVATION TOP OF CASING: ND

DATE STARTED: 6/03/04 DATE FINISHED: 6/03/04 TOTAL DEPTH: 29 feet



BORING NO .: GLA-17

PAGE: 1 OF

JOB NO.: SITE LOCATION:

GREGORY CANYON LANDFILL DRILLING METHOD: AIR ROTARY

DATE STARTED: 6/16/04 DATE FINISHED: 6/18/04 ELEVATION:

GW DEPTH: NA TOTAL DEPTH: 500 feet

CONTRACTOR:

CONTRACTOR: WDC EXPLORATION AND WELLS LOGGED BY: A. FYODOROVA NORTHING: ND EASTING: ND

DRY DENSITY (LBS/CU. FT.) BLOWS (COUNT/FT.) SAMPLE SIZE (INCHES) MOISTURE (來) DEPTH FEET SAMPLE TIME COMMENTS DESCRIPTION O WEATHERED BEDROCK: Domp. 8:48 Gray to dark gray (N4-N5), fine, hightly weathered, poorly indurated TONALITE. ...(5') - intermittent apalite dikes. 8:55 10-...(10') - set conductor ...(10') - highly to moderately weathered, 9:24 moderately indurated. casing to 10 feet. Damp. ...(15'-18') - light yellowish brown (10YR 6/4) GRANODIORITE dike with fine to coorse 9:31 euhedral crystals. 20 9:36 ...(22'-23') - brown (7.5YR 5/2), fine to Damp. medium GRANODIORITE dike. 30 ...(33') - fine to medium with some iron-óxide staining. 9:47 9:53 BEDROCK: Very dark gray (N3), aphonitic to fine, slightly to moderately weathered, well indurated 50 TONALITE with some iron-oxide staining. ...(50') - inject water for dust control. 10:06 60-10:16 ...(69') - color change to dark grayish brown (2.5Y 4/2). 10:24 80 10:31 90-...(96') - guartz vein. 10:41 100-10:50 CONTINUED ON NEXT PAGE

BORING NO .: GLA-17

PAGE: 2 OF

JOB NO.: 9539

SITE LOCATION: GREGORY CANYON LANDFILL

DRILLING METHOD: AIR ROTARY
CONTRACTOR: WDC EXPLORATION AND WELLS

DATE STARTED: 6/16/04 DATE FINISHED: 6/18/04 ELEVATION: ND NORTHING: ND

GW DEPTH: NA TOTAL DEPTH: 500 feet

	DRY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.)	SAMPLE SIZE (INCHES)	SAMPLE NO.	S DEPTH IN	ELEVATION IN FEET	MATERIAL	USCS/GEOLOGIC FORMATION	DESCRIPTION	COMMENTS
10:50						100					
						110					
11:09 11:17						120				(119') - fine to medium with some iron-oxide staining, slightly weathered.	
						130				(125') — color change to pale alive (5Y 6/3); fine to coarse, moderately weathered, some iron—oxide staining(134') — color change to alive gray (5Y	
11:30 11:35				:		140				5/2); thin apolite dike.	
						150				(150') — fine—groined.	
11:51 12:18						160	-				
						170				(166') — colcite veins. (170'—173') — pale brown (10YR 6/3) to brown (10YR 5/3), fine to coarse GRANODIORITE dike with some iron—oxide staining.	
12:36 12:42						180	-		LA CONTRACTOR	(173') — dark groy (N4) to black (N2.5), aphanitic to fine, very well indurated TONALITE with thin calcite veins.	
		THE THE PARTY OF T				190	- 1			(106')	(192'-196') — no cuttings return.
3:13 3:20						200		-		(196') — predominately fine euhedral crysals.	

BORING NO.: GLA-17

PAGE: 3 OF 5

JOB NO.: 9539 SITE LOCATION: GREGORY CANYON LANDFILL

DRILLING METHOD: AIR ROTARY
CONTRACTOR: WDC EXPLORATION AND WELLS

DATE STARTED: 6/16/04 DATE FINISHED: 6/18/04 ELEVATION: ND

GW DEPTH: NA TOTAL DEPTH: 500 feet

LOGGED BY: A. FYODOROVA

NORTHING: ND EASTING: ND

NME	DRY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.)	SAMPLE SIZE (INCHES)	SAMPLE NO.	DEPTH IN	}	ELEVATION IN PEET	MATERIAL	USCS/GEOLOGIC FORMATION	DESCRIPTION	COMMENTS
3:20						200					same as above.	
							<u> </u>					
						210-		_				
				Î								
3:53 4:00						220						
								<u> </u>				
						230-		_				
4:34 4:39				ļ	<u> </u>	240		_				
1.00			ŧ									
							-		1			
						250-		_				
			:									
							ļ					
5:13 5:19		ļ	-			260		_				
J. 13					:							
						270		_				
			:									
5:15					ļ	280-		_				
5/17 7:15			ŧ									
						290-						
						230					(290-300') - predominately aphanitic.	
	!											
7:50						300						
7:54						300-					(300') — dark gray to gray (N4—N5), fine to medium, very well indurated TONALITE.	
									-	-	CONTINUED ON NEXT PAGE	
The	e data	presen	ted on	this lo	a is a	simnlif	icatio) O	i act	uala	onditions encountered and applies only at the	location of this boring

BORING NO.: GLA-17

PAGE: 4 OF

JOB NO.: 9539

SITE LOCATION: GREGORY CANYON LANDFILL
DRILLING METHOD: AIR ROTARY
CONTRACTOR: WDC EXPLORATION AND WELLS LOGGED BY: A FYODOROVA

DATE STARTED: 6/16/04 DATE FINISHED: 6/18/04

ELEVATION: ND NORTHING: ND EASTING: ND

GW DEPTH: NA TOTAL DEPTH: 500 feet

			: A.FI		۸						EASTING: NU	
TIME	DRY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.)	SAMPLE SIZE (INCHES)	SAMPLE NO.	DEPTH IN		ELEVATION IN FEET	MATERIAL SYMBOL	USCS/GEOLOGIC FORMATION	DESCRIPTION	COMMENTS
7:54						300		_			(300') — dork gray to gray (N4—N5), fine to medium, very well indurated TONALITE.	
											incoloni, roly non-non-non-non-non-non-non-non-non-non	
						310-		_				
8:29 8:34					ļ	320		_				
						770						
						330-						
9:13 9:23						340		_				
0.20												
						350		_				

9:58 10:10	<u> </u>					360		_			(360') — fine to ophonitic with calcite veins.	
10:10											(300) - the to optionic min colore vens.	
						370	<u> </u>	-		ļ		
										-		
11:01						380				-		1000
11:12										***************************************		
						390		-				
							ļ					
11:49												
12:01						400-						
									-	-	CONTINUED ON NEXT PAGE	

BORING NO.:

GLA-17

PAGE: 5 OF 5

JOB NO.: 9539
SITE LOCATION: GREGORY CANYON LANDFILL
DRILLING METHOD: AIR ROTARY
CONTRACTOR: A CONTRACTOR AND WELLS

DATE STARTED: 6/16/04 DATE FINISHED: 6/18/04

GW DEPTH: NA TOTAL DEPTH: 500 feet

ELEVATION: ND NORTHING: ND

ME	DRY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.)	SAUPLE SIZE (INCHES)	SAMPLE NO.	OEPTH IN	-1 -1 -1 -1	ELEVATION IN FEET	MATERIAL	USCS/GEDLOCK FORMATION	DESCRIPTION	COMMENTS
:01						400		_			same as above.	
					,							
:18							-					
18 54						410		_				
10	:					420-						
14						720						
						430-						
03 08						440						
00												
		:				450-		_				
	:											
:41 :48						460-	<u> </u>	_				
						470	<u> </u>					
							-					
16												
:21						480		-				
		:										
						490-						
										/	Notes:	
00						500					1. Total depth of boring 500 feet. 2. No groundwater encountered.	
						500-					3. Borehole geophysics conducted on 6/21/04. 4. Boring obandoned with neat cement grount	
											on 6/22/04.	

BORING NO.:

GLA-3S

2

PAGE: 1 OF

JOB NO.: 9539

SITE LOCATION: GREGORY CANYON LANDFILL DRILLING METHOD: AIR ROTARY CONTRACTOR: WDC EXPLORATION AND WELLS

DATE STARTED: 6/14/04 DATE FINISHED: 6/15/04 ELEVATION: ND

GW DEPTH: 24.37 feet TOTAL DEPTH: 80 feet

LOGGED BY: A. FYODOROVA

NORTHING: ND EASTING: ND

пме	ORY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.)	SAMPLE SIZE (INCHES)	SAMPLE NO.	DEPTH IN	3	ELEVATION IN FEET	MATERIAL SYMBOL	USCS/GEOLOGY FORMATION	DESCRIPTION	COMMENTS
8:40						5				SW	YOUNGER ALLUVIUM: Dark brown (10YR 2/2) GRAVELLY SAND with COBBLES and BOULDERS. SAND is fine to medium, well graded; GRAVEL and COBBLES well rounded.	Moist,
8:48 5/15 8:33						10-					(6') - color change to brown (75YR 5/4)(12') - BOULDER.	Refusal on boulder, switch to Stratex.
						15-		•			(14') — SAND is fine to coarse with valcanic COBBLES(17') — increasing GRAVEL, COBBLES, and BOULDERS.	
						25		_	TO THE TANKE OF THE PARTY OF TH	SM	OLDER ALLUVIUM: Light brown (7.5YR 6/4) SILTY SAND with scattered GRAVEL. SAND is fine to coarse, well graded(26') — color change to yellow—brown (7.5YR	Moist. Very moist
8:52						30			on and the State of the State o		(31') — increasing GRAVEL and COBBLES cemented with silica, well indurated.	Moist.
						40			50%.67%		WEATHERED BEDROCK: Olive (5Y 5/4), highly weathered with iron—oxide staining and alteration of feldspars to CLAY, medium to coarse GRANODIORITE (GRUSS)(41') — color change dark brown (10YR	Very moist(37') — set conductor casing.
9:40						45					3/3)(44'-47') — apolite dike, fine to coarse, well indurated(47') — moderately weathered.	(44') — damp.
9:54 0:00 3:29						50-		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	***************************************		(49') — iron—oxide staining on fractured surfaces(51') — apalite vein. CONTINUED ON NEXT PAGE	(52') – wet.

BORING NO.: GLA-3S

PAGE: 2 OF

JOB NO.: 9539 SITE LOCATION: GREGORY CANYON LANDFILL
DRILLING METHOD: AIR ROTARY
CONTRACTOR: WDC EXPLORATION AND WELLS
LOGGED BY: A. FYODOROVA

DATE STARTED: 6/14/04 DATE FINISHED: 6/15/04 ELEVATION: ND

GW DEPTH: 24.37 feet TOTAL DEPTH: 80 feet

NORTHING: ND EASTING: ND

		GGED B	I: A. F	OUONU	·^						EASTING: NO	
TIME	DRY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.)	SAMPLE SIZE (INCHES)	SAMPLE NO.	DEPTH IN	1334	ELEVATION IN PEET	MATERIAL	USCS/GEOLOGIC FORMATION	DESCRIPTION	COMMENTS
10:00 13:29						50		모			(51') — apolite vein.	(52') wet.
13:31 13:36 13:42						55			Vanis de la companya del companya de la companya de la companya del companya de la companya del la companya del la companya de		(58') — increasing mafic minerals.	Saturated.
13:48				:		60-		_				
						65-						
						70		_	-	**************************************		
						75		-		ANALYSIS (MANAGANIS) (MANAGANI		
14:00						80					Notes:	
			; ;			85-		_			 Total depth of boring 80.0 feet; borehole open to 77.5 feet. Groundwater first encountered at 52.0 feet on 6/15/04; static water level measured at 24.37 feet on 6/17/04. Borehole geophysics performed on 6/18/04. 	
				Anna constituti de la c		90		_			4. Borehole abandoned with neat cement grout on 6/23/04.	
						95						
						100		_		THE BANK OF THE PARTY OF THE PA		

BORING NO.:

GLA-A

2 PAGE: 1 OF

JOB NO.: 9539 SITE LOCATION: GREGORY CANYON LANDFILL

DRILLING METHOD: AIR ROTARY
CONTRACTOR: WDC EXPLORATION AND WELLS
LOGGED BY: W. LOPEZ, CHG

DATE STARTED: 6/08/04 DATE FINISHED: 6/09/04 ELEVATION: 429575.97

NORTHING: 1737085.44 EASTING: 377.49

GW DEPTH: 75.12 feet TOTAL DEPTH: 105 feet

				·								
TIME	ORY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.)	SAMPLE SIZE (INCHES)	SAMPLE NO.	DEPTH IN	1	ELEVATION IN FEET	MATERIAL SYMBOL	USCS/GEOLOGIC FORMATION	DESCRIPTION	COMMENTS
16:50						5		-	SEINGING NEWNEND	SM	SOIL: Strong brown (7.5YR 4/6), fine, poorly graded SILTY SAND.	Dry.
				and the second s		10		_			WEATHERED BEDROCK: Olive brown (2.5Y 4/3), fine, highly weathered with iron-oxide staining, poorly indurated TONALITE (GRUSS).	Slightly moist.
	WANTANA PARTY TO THE PARTY TO T					15-				And Andrews	(18') — color change to dark gray (2.5Y 4/1); moderately to slightly weathered,	(16') — set conductor casing, switch to downhole hammer.
17:00 6/07 7:15 7:22						20- 25-					moderately indurated. BEDROCK: Black (N2.5), fine to medium, harmblend rich with quartz, moderately indurated TONALITE.	Dry.
7:32						30					(30') — color varies from black (N2.5) to dark gray (2.5Y 4/1).	Dry.
						35						
7.65					ACTION TO THE PERSON TO THE PE	40						
7:55 8:23						45 50		-				
:						55-						
			Water-parked with announce and property of the second			60-				Cason conclusions to constitution of the const		
											CONTINUED ON NEXT PAGE	<u>' </u>

BORING NO .:

GLA-A

PAGE: 2 OF

JOB NO.:

SITE LOCATION: GREGORY CANYON LANDFILL DRILLING METHOD: AIR ROTARY

DATE STARTED: 6/08/04 DATE FINISHED: 6/09/04 ELEVATION: 429575.97 NORTHING: 1737085.44

GW DEPTH: 75.12 feet TOTAL DEPTH: 105 feet

CONTRACTOR: WDC EXPLORATION AND WELLS LOGGED BY: W. LOPEZ, CHG CONTRACTOR:

EASTING: 377.49

DRY DENSITY (LBS/CU. FT.) SAMPLE SIZE (INCHES) BLOWS (COUNT/FT.) DEPTH FEET TIME COMMENTS DESCRIPTION 60-...some as above. 8:42 65 8:56 70 80-Cuttings moist. ...(83'-95') - color predominately dark gray ∇ 9:13 (2.5Y 4/1); increasing quartz and feldspar. 85-...(85') - first water 9:30 encountered. 100-9:55 105 Notes: 1. Total depth of boring 105 feet. 2. Groundwater first encountered at 85 feet, static water level measured at 75.12 feet 110on 6/11/04. Borehole geophysics donducted on 6/11/04. 4. Monitoring well constructed in boring (see well completion summary). 115 120-

BORING NO.:

GLA-B

PAGE: 1 OF

JOB NO.: 9539 SITE LOCATION: GREGORY CANYON LANDFILL

DRILLING METHOD: AIR ROTARY
CONTRACTOR: WDC EXPLORATION AND WELLS
LOGGED BY: W. LOPEZ, CHG/A. FYODOROVA

DATE STARTED: 6/09/04 DATE FINISHED: 6/10/04 **ELEVATION: 430149.38**

GW DEPTH: 40.66 feet TOTAL DEPTH: 91.5 feet

NORTHING: 1737940.66 EASTING: 344.14

IME	ORY DENSITY (LBS/CU. FT.)	MOISTURE (%)	BLOWS (COUNT/FT.)	SAMPLE SIZE (INCHES)	SAMPLE NO.	DEPTH IN	רבבו	ELEVATION IN FEET	MATERIAL SYMBOL	USCS/GEOLOGIC FORMATION	DESCRIPTION	COMMENTS
5:57						0			Servery Con	SM	COLLUVIUM: Dork yellowish brown (10YR 4/4), fine, poorly groded SILTY SAND.	Slightly moist.
6:00						5		_	53393353393			
5:25						10-		_	nemographementementementementementementementemen		(10') — grain size increase to fine to coarse	Moist
									New York West		with fine GRAVEL; well groded.	
5:37 /10						15					WEATHERED BEDROCK: Light olive brown (2.5Y 5/4), fine, highly weothered with iron-oxide staining and alteration of feldspars to CLAY, poorly	Moist.
3:11						20-		-		-	induroted GRANODIORITE (GRUSS).	
3:14						25					(22-25') — color change to strong brown (7.5YR 5/6); grain size increase to fine to coarse.	
3:26 3:28 3:35												(26') — set conductor cosing.
						30						
				:		35-		_			(35') — color change to olive brown (2.5Y 4/3).	Very moist.
						40-		₹		-		
8:41 9:21						ΔE		¥ ∑				(42') — sound for wate wet at bottom of boring.
						45						
	**************************************					50-		-				(52'-60') - very moist
							<u></u>				CONTINUED ON NEXT PAGE conditions encountered and applies only at the	

BORING NO.:

GLA-B

PAGE: 2 OF 2

JOB NO.: 9539

SITE LOCATION: GREGORY CANYON LANDFILL
DRILLING METHOD: AIR ROTARY
CONTRACTOR: WDC EXPLORATION AND WELLS
LOGGED BY: W. LOPEZ, CHG/A. FYODOROVA

DATE STARTED: 6/09/04 DATE FINISHED: 6/10/04 ELEVATION: 430149.38 NORTHING: 1737940.66 EASTING: 344.14

GW DEPTH: 40.66 feet TOTAL DEPTH: 91.5 feet

TIME	DRY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.)	(INCHES)	SAMPLE NO.	DEPTH IN	j	ELEVATION IN FEET	MATERIAL SYMBOL	USCS/GEOLOGIC FORMATION	DESCRIPTION	COMMENTS
			TRANSPORTE OF TRANSPORTATION OF CONTROL OF C			55-		_				(52'~60') – very moist
9:30 0:12						60		-			(60') — medium to coarse.	(62') — sound for wate water measured at 57.75
						65					(65') - fine to medium.	feet.
						70		_			(71') - fine, moderately weathered.	
						80		_			(76') — fine to coorse.	Moist(80') - free water.
D:22 D:27						85		-	THE PROPERTY CONTRACTOR OF THE PROPERTY CONTRACT			(ou) - nee water.
):49					POPE AND	90		_		ļ	UNWEATHERED BEDROCK: Groy (N5-N6), medium to coarse, very well	~~~~
The state of the s	7				The property of the state of th	95		-			indurated GRANODIORITE/TONALITE with euhedral crystals. Notes: 1. Total depth of boring 91.5 feet (refusal with tri-cone bit).	
Harry Market Control	THE PERSON NAMED OF THE PE		T THE PARTY OF THE			100		-			 Groundwater first encountered at 42 feet on 6/10/04; static water level measured at 40.66 feet on 6/11/04. Borehole geophysics conducted on 6/11/04. Groundwater monitoring well constructed in boring (see well completion summary). 	

BORING NO.:

GLA-C

PAGE: 1 OF

JOB NO.: 9539

SITE LOCATION: GREGORY CANYON LANDFILL

DRILLING METHOD: AIR ROTARY
CONTRACTOR: WDC EXPLORATION AND WELLS
LOGGED BY: A. FYODOROVA

DATE STARTED: 6/10/04 DATE FINISHED: 6/11/04 ELEVATION: 430101.73 NORTHING: 1737809.29 **EASTING: 340.76**

GW DEPTH: 40.14 feet TOTAL DEPTH: 81 feet

	LO	OOLD D		1000110	·/\						EASTING: STO.70	
TIME	DRY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.)	SAMPLE SIZE (INCHES)	SAMPLE NO.	DEPTH IN	- - - - - - - - - - - - - - - - - - -	ELEVATION IN FEET	MATERIAL SYMBOL	USCS/GEOLOGIC FORMATION	DESCRIPTION	COMMENTS
14:35						0			SE 1848.05	SM	TOPSOIL: Brown (75YR 4/3), fine to coarse, well graded SILTY SAND.	Dry.
						5-			Sex Cos Sex Cos	SM	COLLUVIUM: Strong brown (7.5YR 5/6), fine to medium, moderately graded SILTY SAND(6') — well indurated.	Domp.
						10-			IONO SONO SONO SONO SONO SONO SONO SONO		(10') - GRAVEL and COBBLES predomiately	
						15-			NAME OF THE PERSONS		opalite and metavolcanics. WEATHERED BEDROCK: Strong brown (7.5YR 5/6), fine to coarse, highly weathered with alteration of feldspars to	Very moist.
16:46											CLAY, poorly indurated GRANODIORITE (GRUSS)(17') — pegmatite dike(18'-19') — apolite dike.	
6/11 7:42						20		-			(20') — becomes moderately weathered with slight iron—oxide staining.	
						25-					(24'-25') - pegmotite dike(26'-27') - diabase/mafic dike, highly weathered to CLAY.	(26') - very moist(27') - set conductor cosing.
8:01 8:07						30		-	THE STATE OF THE WINDSHIP STATE OF THE STATE			cosing.
						35-		_	AND THE PROPERTY OF THE PARTY O	***************************************	(33') — color change to dark grayish brown (2.5Y 4/2).	
						40-		<u>_</u>	**************************************			
						45-						
9.14								\sqsubseteq		***************************************		:
8:14 8:55						50-					CONTINUED ON NEXT PAGE	(50') — wait 30 minutes sound for water; water measured at 46.7'.

BORING NO.:

GLA-C

PAGE: 2 OF

JOB NO.:

8:55

9:02 9:08

9:19

9539 CANYON LANDFILL

DATE STARTED: 6/10/04

GW DEPTH: 40.14 feet TOTAL DEPTH: 81 feet

 DRILLING CON	METHO	D: AIR R: WDC	ROTARY EXPLOR		ND WELLS		ELEVATION: NORTHING: EASTING:	430101.73 1737809.29	
RY DENSITY LBS/CU. FT.)	MOISTURE (X)	BLOWS COUNT/FT.)	AMPLE SIZE (INCHES)	AMPLE NO.	DEPTH IN FEET	ELEVATION IN FEET MATERIAL SYMBOL SCABOL SCAMATION	D	ESCRIPTION	

COMMENTS

...(50') - wait 30 minutes sound for water; water measured at 46.7'.



60

65

70-

80-

85-

90-

95-

100

...(63'-67') - no cuttings return.

...(67') - slightly to moderately weathered.

...(72') - very moist.

...(75') - slightly weothered.

...(77') - wet.

Moist.

Notes:

- 1. Total depth of boring 81.0 feet; borehole open to 77.5 feet.
- 2. Groundwater first encountered at 46.7 feet; static water level measured at 40.14 feet on 6/11/04.
- 3. Borehole geophysics conducted on 6/18/04.
- 4. Groundwater monitoring well constructed in boring (see well completion summary).

BORING NO.:

GLA-D

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PAGE: 1 OF

JOB NO.: 9539

SITE LOCATION: GREGORY CANYON LANDFILL
DRILLING METHOD: AIR ROTARY
CONTRACTOR: WDC EXPLORATION AND WELLS
LOGGED BY: W. LOPEZ, CHG

DATE STARTED: 6/07/04 DATE FINISHED: 6/08/04 ELEVATION: 429775.68 NORTHING: 1737341.82 EASTING: 364.77

GW DEPTH: 59.5 feet TOTAL DEPTH: 146.2 feet

TIME	DRY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.)	SAMPLE SIZE (INCHES)	SAMPLE NO.	DEPTH IN	FEE	ELEVATION IN PEET	MATERIAL SYMBOL	USCS/GEOLOGIC FORMATION	DESCRIPTION	COMMENTS
4:25 4:32						5				SC	SOIL: Dork reddish brown (5YR 3/3), fine, poorly graded CLAYEY SAND. WEATHERED BEDROCK: Olive brown (2.5Y 4/3) to brown (10YR 4/3), fine, highly weathered with iron-oxide staining, poorly indurated TONALITE (GRUSS) with GRANODIORITE dikes composed of quortz and feldspar phenocrysts.	Moist. Slightly moist.
15:00			1	SOCIONA CONTINUE DE ANTINOTE :		15					(15') — fine to medium; increasing felsic minerals.	(18') - set conductor
5:18						25-					(22') — moderately weathered with some highly weathered intervals.	cosing.
5:30						30- 35-			ANTENNA PARA PARA PARA PARA PARA PARA PARA P		BEDROCK: Brown (10YR 4/3) to black (N2.5), fine to medium, hornblend and quartz rich, moderately indurated TONALITE.	Dry.
6:02 6:09						40-						Switch to downhole hammer.
6:15						45 50					(50') — color change to black (N2.5).	
						55- 60-		<u> </u>				(60') ~ dry.
											CONTINUED ON NEXT PAGE conditions encountered and applies only at the	

BORING NO.:

GLA-D

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PAGE: 2 OF

JOB NO.: SITE LOCATION:

9539

GREGORY CANYON LANDFILL

DRILLING METHOD: AIR ROTARY

CONTRACTOR: WDC EXPLORATION AND WELLS

LOGGED BY: W. LOPEZ, CHG

DATE STARTED: 6/07/04 DATE FINISHED: 6/08/04 ELEVATION: 429775.68

NORTHING: 1737341.82 **EASTING: 364.77**

GW DEPTH: 59.5 feet TOTAL DEPTH: 146.2 feet

ME	ORY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.)	SAMPLE SIZE (INCHES)	SAMPLE NO.	DEPTH IN FEET		ELEVATION IN PEET	MATERIAL Symbol	USCS/GEOLOGIC FORMATION	DESCRIPTION	COMMENTS
						60					same as above.	(60') – dry.
5-30												
:30 :35						65		-				
						70		-				
						75		-				
						80-		-				
<u>55</u> 05						05						
05						85		_				
						90		_				
						30						
•						95-		_				
:												
:						100-		-			(100, 410)	(98') — very moist to slightly wet cuttings.
											(100-110') - very well indurated.	
50						105		⊽				
08 25												(105.6') — first water encountered.
						110		-				
						115		-				į.
		1										
						120	\dashv	-				
		-							• • • • • • • •		ANTHUES AL LES TO THE	
<u> </u>	data	DEADAR	lad co	thic le	a io o	eimentifi.	ogłin.			ماد	CONTINUED ON NEXT PAGE onditions encountered and applies only at the	

BORING NO.:

GLA-D

PAGE:

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JOB NO.: SITE LOCATION: DRILLING METHOD:

CONTRACTOR:

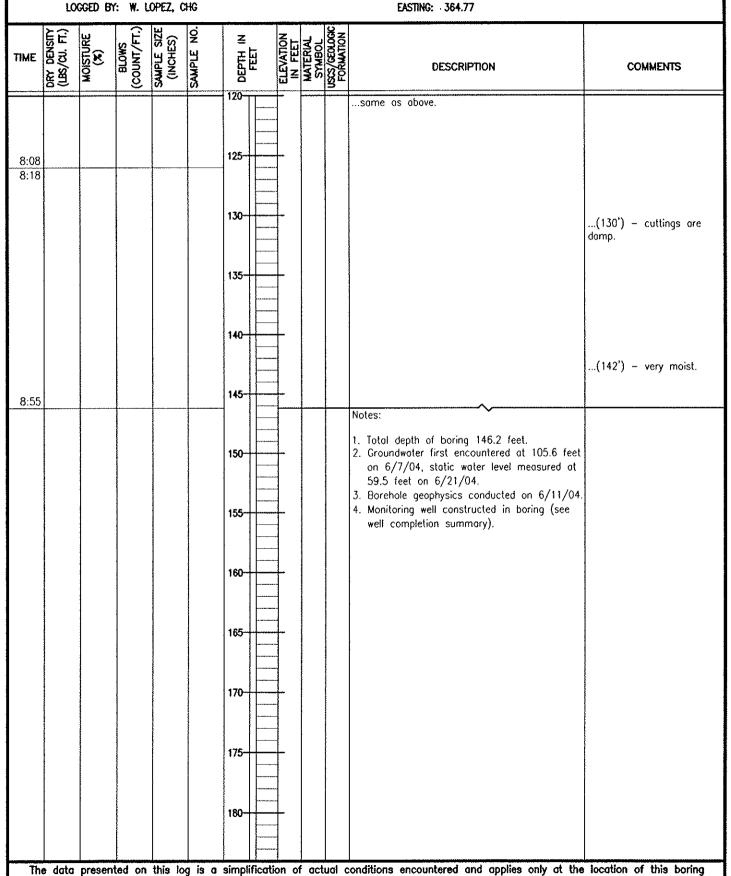
9539

GREGORY CANYON LANDFILL

AIR ROTARY
WDC EXPLORATION AND WELLS

DATE STARTED: 6/07/04 DATE FINISHED: 6/08/04 ELEVATION: 429775.68

ELEVATION: 429775.68 NORTHING: 1737341.82 EASTING: 364.77 GW DEPTH: 59.5 feet TOTAL DEPTH: 146.2 feet



BORING NO.:

GLA-E

PAGE: 1 OF

JOB NO.: 9539

SITE LOCATION: GREGORY CANYON LANDFILL
DRILLING METHOD: AIR ROTARY
CONTRACTOR: WDC EXPLORATION AND WELLS
LOGGED BY: W. LOPEZ, CHG

DATE STARTED: 7/14/04 DATE FINISHED: 7/15/04 ELEVATION: ND NORTHING: ND EASTING: ND

GW DEPTH: 152.80 feet TOTAL DEPTH: 152.85 feet

									,			
TIME	DRY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.)	SAMPLE SIZE (INCHES)	SAMPLE NO.	DEPTH IN	1	ELEVATION IN FEET	MATERIAL	USCS/GEOLOGIC FORMATION	DESCRIPTION	COMMENTS
16:58						0			STANTA	SM	SOIL: Brown (7.5YR 5/4), fine to medium, poorly groded SILTY SAND.	Dry.
		-	manufacture of the second	The second secon		5			THE PROPERTY OF THE PROPERTY O		WEATHERED BEDROCK: Brown (7.5YR 5/4) to strong brown (7.5YR 5/6), fine to medium, moderately weathered, moderately indurated TONALITE (GRUSS) with GRANODIORITE dikes.	Dry.
		A TOTAL AND A TOTA				15-					BEDROCK: Olive brown (2.5Y 5/4), fine to coarse, well indurated, unweathered TONALITE(13') — color change to dark gray (7.5YR 4/1) to (5Y 4/1).	Dry.
17:30 6/15 8:10 8:13 8:25						20-						(16') — set conductor casing, switch to downhole hammer.
				·		25-						(25') - slightly moist.
						30-				The second secon		
8:33						35 -						
8:39						45						(45') dry.
						50-						
8:49						55 60			***************************************	7,000		
8:51						00-					CONTINUED ON NEXT PAGE	

BORING NO.:

GLA-E

PAGE: 2 OF 3

JOB NO.: 9539 SITE LOCATION: GREGO DRILLING METHOD: CONTRACTOR:

GREGORY CANYON LANDFILL

AIR ROTARY
WDC EXPLORATION AND WELLS

DATE STARTED: 7/14/04 DATE FINISHED: 7/15/04

GW DEPTH: 152.80 feet TOTAL DEPTH: 152.85 feet

ELEVATION: ND NORTHING: ND

IME	DRY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.)	SAMPLE SIZE (INCHES)	SAMPLE NO.	DEPTH IN		ELEVATION IN FEET	MATERIAL	USCS/GEOLOGIC FORMATION	DESCRIPTION	COMMENTS
8:51						60	Ţ				same as above.	
										ļ		
8:53 9:10						65-	-	-			(65') — minor iron—oxide staininig.	Dry.
					-						and the state of t	
						70-						
					-		-					
					***************************************	75						
0.20												•
9:20 9:27						80-		-			(80') — color change to gray (N5-N6); very well indurated.	Dry.
											well indurated.	
						85		-				
						90-	<u> </u>	_				1
						95-						
9:44							-					
9:50						100-		-				(100') - dry.
						105		-	<u> </u>			
						110-		_				
						115-		L				-
0:10 ·						405						
):28						120		-				(120') – dry.
											CONTINUED ON NEXT PAGE	

BORING NO.:

GLA-E

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JOB NO.: 9539

SITE LOCATION: GREGORY CANYON LANDFILL
DRILLING METHOD: AIR ROTARY
CONTRACTOR: WDC EXPLORATION AND WELLS
LOGGED BY: W. LOPEZ, CHG

DATE STARTED: 7/14/04 DATE FINISHED: 7/15/04 ELEVATION: ND

NORTHING: ND EASTING: ND

GW DEPTH: 152.80 feet TOTAL DEPTH: 152.85 feet

пме	DRY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.)	SAMPLE SIZE (INCHES)	SAMPLE NO.	DEPTH IN FEET	ELEVATION	MATERIAL	LSCS/GEOLOGIC FORMATION	DESCRIPTION	COMMENTS
10:28	I					120				same as above.	(120') – dry.
						125					
						130	+				
								ŀ			
			,			135	1				
						~	\exists				
]				
10:52 11:03						140	+				(140') – dry.
										(142') - well indurated.	
						.,,				,,	
						145	\blacksquare				
						I F					
						150-	7				Stop for 2 hours, sound
11:15							\mathbb{Z}	2			for water, wet at botton of boring.
						455				Notes:	
						155	Ŧ			Total depth of boring 152.85 feet. Groundwater first encountered at 152.8'.	
				:			7			3. Borehole geophysics conducted on 7/20/04.	
						160	+				
					-						
						165	#				
								-			
						170	#				
	:										
						175	+				
							1				
						180	_				
			:				_				
							-				

BORING NO.:

GLA-F

PAGE: 1 OF

JOB NO.: 9539 SITE LOCATION:

GREGORY CANYON LANDFILL

DATE STARTED: 7/16/04 DATE FINISHED: 7/16/04 ŇĎ

GW DEPTH: 164.8 feet TOTAL DEPTH: 165.5 feet

DRILLING METHOD: CONTRACTOR: AIR ROTARY
WDC EXPLORATION AND WELLS ELEVATION: ND NORTHING: EASTING: ND LOGGED BY: W. LOPEZ, CHG

TIME	ORY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.)	SAMPLE SIZE (INCHES)	SAMPLE NO.	DEPTH IN	172	ELEVATION IN FEET	MATERIAL SYMBOL	USCS/GEOLOGIC FORMATION	DESCRIPTION	COMMENTS
7:30						0			7335		SOIL: Strong brown (7.5YR 5/6), fine to medium, poorly groded SILTY SAND. WEATHERED BEDROCK:	Dry. Moist.
						5		_			Dark brown (7.5YR 3/4), fine to medium, highly weathered with iron—oxide staining and alteration of feldspars to CLAY, poorly indurated TONALITE (GRUSS).	must,
						10-			_		Olive brown (2.5Y 4/3), fine to medium, moderately weathered, poorly to moderately indurated TONALITE.	Moist.
						15		_				(17') - set conductor
						20-		-				casing, switch to downhole hammer. (20') - dry.
8:05 8:13						25		_		The state of the s		
						30-		<u></u>		~	BEDROCK: Gray (2.5Y 4/1), fine to medium, unweathered,	Dry.
						35					well indurated TONALITE.	
						40-		_				
8:20 8:26						45-		_			(45') — very well indurated.	
						50-		_				
						55		_				
						60-						
				11.1-			6				CONTINUED ON NEXT PAGE	

BORING NO.:

GLA-F

PAGE: 3

JOB NO.: 9539

SITE LOCATION: GREGORY CANYON LANDFILL
DRILLING METHOD: AIR ROTARY
CONTRACTOR: WDC EXPLORATION AND WELLS

DATE STARTED: 7/16/04 DATE FINISHED: 7/16/04 ELEVATION: ND

GW DEPTH: 164.8 feet TOTAL DEPTH: 165.5 feet

NORTHING: ND

					HG		,			EASTING: ND ·	
TIME	DRY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.)	SAMPLE SIZE (INCHES)	SAMPLE NO.	DEPTH IN	ELEVATION IN FEET	MATERIAL	USCS/GEOLOGIC FORMATION	DESCRIPTION	COMMENTS
						60				same as above.	
8:40 8:48						65	+				
							-				
			:			70	_				
		***************************************				75					(act)
				***************************************		-					(75') - dry.
						80					
											(83') – dry.
9:03 9:09						85	+				
							1				
						90	}				
						95	+				
					:						
						100					
						100					
							-				(103') – dry.
9:25 9:35						105	+				
		}									
						110	}				
		}									
						115	1				

						100					
				-		120					
							-	ļ		CONTINUED ON NEXT PAGE	
The	data dat th	present e time	ed on of dril	this lo ling. Si	g is a s ubsurfac	simplificati o conditio	on o	f act ay d	ual c iffer	onditions encountered and applies only at the at other locations and may change with the	location of this boring passage of time.

BORING NO.:

GLA-F

PAGE: 3 OF 3

JOB NO.: 9539

SITE LOCATION: GREGORY CANYON LANDFILL DRILLING METHOD: AIR ROTARY CONTRACTOR: WDC EXPLORATION AND WELLS

7/16/04 7/16/04 DATE STARTED: DATE FINISHED: ELEVATION: ND

GW DEPTH: 164.8 feet TOTAL DEPTH: 165.5 feet

LOGGED BY: W. LOPEZ, CHG

NORTHING: ND EASTING: ND

TIME	DRY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.)	SAMPLE SIZE (INCHES)	SAMPLE NO.	DEPTH IN FEET	ELEVATION IN FEET	MATERIAL SYMBOL	USCS/GEDLOGIC FORMATION	DESCRIPTION	COMMENTS
9:55 10:02						125				same as above.	(123') – dry.
0.02						130			***************************************		
						135					
10:24 10:30						145					(146') – very moist.
						150					
						160					
0:45						165	\subseteq			Notes:	
						170				 Total depth of boring 165.5 feet. Groundwater first encountered at 164.8'. Borehole geophysics conducted on 7/20/04. 	
						180			NATA CALLA C		
The	data p	oresente	ed on t	this log	is a s	simplification condition	on of	actu	ial c	onditions encountered and applies only at the other locations and may change with the	location of this boring

BORING NO.:

GLA-G

PAGE: 1 OF

JOB NO.: 9539 SITE LOCATION: GREG GREGORY CANYON LANDFILL AIR ROTARY WDC EXPLORATION AND WELLS DRILLING METHOD:

DATE STARTED: 7/20/04 DATE FINISHED: 7/20/04 ELEVATION: 430247.55 NORTHING: 1737961.72 **EASTING: 345.04**

GW DEPTH: 40.18 feet TOTAL DEPTH: 104 feet

CONTRACTOR: LOGGED BY: W. LOPEZ, CHG

TIME	ORY DENSITY (LBS/CU. FT.)	MOISTURE (%)	BLOWS (COUNT/FT.)	SAMPLE SIZE (INCHES)	SAMPLE NO.	DEPTH IN FEET	ELEVATION IN FEET	MATERIAL SYMBOL	USCS/GEOLOGIC FORMATION	DESCRIPTION	COMMENTS
9:40	<u> </u>					5		NO NEW YORK	SM	COLLUVIUM: Strong brown (7.5YR 4/6), fine to coarse, well graded SILTY SAND with iron-oxide stoining.	Dry.
					and the second s	10		SKONSKENSKY		(8') — cotor change to brown (7.5YR 5/4).	Moist.
						15-		nearensersersers		(12') - color change to strong brown (7.5YR 5/6) (13-16') - GRANODIORITE BOULDER.	(16') - set conductor casing.
10:13 10:21						20		27.75		WEATHERED BEDROCK: Brown (7.5YR 4/4), fine to coarse, highly weathered with iron-oxide staining and	(20') — switch to downhole hammer.
10:24 10:29						25				alteration of feldspars to CLAY, poorly indurated GRANODIORITE(24') — color change to light yellowish brown (2.5Y 6/4).	
						30		***************************************			
						35	 			(35') — color change to olive brown (2.5Y 4/3) to dark grayish brown (2.5Y 4/2); moderately weathered, poorly indurated, little to no CLAY.	
10:36						40	→ <u>▼</u>				
10:41						50					(48') – very moist.
						55					
						60		***************************************		(60') – fine to medium.	
										CONTINUED ON NEXT PAGE	

BORING NO.:

GLA-G

PAGE: 2 OF 2

JOB NO.: 9539 SITE LOCATION: DRILLING METHOD: CONTRACTOR:

GREGORY CANYON LANDFILL

AIR ROTARY WDC EXPLORATION AND WELLS DATE STARTED: 7/20/04 7/20/04 DATE FINISHED: ELEVATION: 430247.55 NORTHING: 1737961.72

GW DEPTH: 40.18 feet TOTAL DEPTH: 104 feet

LOGGED BY: W. LOPEZ, CHG EASTING: 345.04 DRY DENSITY (LBS/CU. FT.) SAMPLE SIZE (INCHES) MOISTURE (X) BLOWS (COUNT/FT. TIME DESCRIPTION COMMENTS ...(60') — fine to medium. 10:46 65 10:51 ...(65'-70') - color change to pale yellow ...(65') - very moist to slightly wet. (2.5Y 7/4); medium to coarse. ...(70') — color change to yellowish brown (10YR 5/8); fine to medium. 80 10:56 ∇ 85 11:02 ...(85') - first water ...(85°) — color change to dark grayish brown (2.5Y 4/2); fine to coarse. encountered. ...(93') - slightly wet. 100-11:07 Notes: 105 1. Total depth of boring 104 feet. 2. Groundwater first encountered at 85 feet on 7/20/04; static water level measured at 40.18 feet on 7/22/04. 3. Borehole geophysics conducted on 7/20/04. 4. Groundwater monitoring well constructed an 7/21/04 (see well completion summary). 120-

BORING NO.:

LUCIO-2R

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PAGE: 1 OF

JOB NO.: 9539 SITE LOCATION: DRILLING METHOD:

GREGORY CANYON LANDFILL HOLLOW STEM AUGER WDC EXPLORATION AND WELLS

DATE STARTED: 6/03/04 DATE FINISHED: 6/03/04

GW DEPTH: 12.5 feet TOTAL DEPTH: 50 feet

CONTRACTOR:

LOGGED BY: W. LOPEZ, CHG

ELEVATION: ND NORTHING: ND EASTING: ND

TIME	DRY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.)	SAMPLE SIZE (INCHES)	SAMPLE NO.	DEPTH IN FEET	ELEVATION IN FEET	MATERIAL	USCS/GEOLOGIC FORMATION	DESCRIPTION	COMMENTS
8:33						0 5		WKONESKONKSKORESKO	SM	ALLUVIUM: Brown (10YR 4/2), fine to coarse, well graded SILTY SAND with GRAVEL. GRAVEL is subrounded to subangular.	Slightly moist(5') - moist.
					Management of the Control of the Con	15		SAMANAMANAN SAMANAN SA			
8:45						25			SW	Dark gray (10YR 4/1), well graded, fine to coarse SAND with fine to medium, subrounded to subangular GRAVEL.	Wet.
8:54						30					
8:58						40					(40') — saturated.
9:03						50				Notes:	
						55		NAME AND ADDRESS OF THE PARTY O		 Total depth of boring 50 feet. Groundwater measured at 12.5 feet. Groundwater monitoring well constructed on 6/3/04 (see well conmpletion summary). 	
The	data	presen	ted on	this in	ng is a		eation of	act	ual o	CONTINUED ON NEXT PAGE conditions encountered and applies only at the	location of this boring

BORING NO .: SLRMWD-34R

PAGE: 1 OF 1

JOB NO.: 9539 SITE LOCATION: GREGO

DATE STARTED: 6/03/04 DATE FINISHED: 6/03/04 ND ND

GW DEPTH: 12.6 feet TOTAL DEPTH: 30 feet

GREGORY CANYON LANDFILL. HOLLOW STEM AUGER WDC EXPLORATION AND WELLS DRILLING METHOD: ELEVATION: CONTRACTOR: NORTHING: LOGGED BY: W. LOPEZ, CHG EASTING: ND

TIME	ORY DENSITY (LBS/CU. FT.)	MOISTURE (X)	BLOWS (COUNT/FT.	SAMPLE SIZE (INCHES)	SAMPLE NO	DEPTH IN	1334	ELEVATION IN FEET	MATERIAL SYMBOL	USCS/GEOLOGY FORMATION	DESCRIPTION	COMMENTS
12:20						0-			OXONISONO.	SM	ALLUVIUM: Yellowish brown (10YR 5/4), fine, poorly graded, micaceous SILTY SAND.	Dry.
						5-			NASKERVESKET			(5') – slightly moist.
	:					10-		<u>*</u>	Sexensiesee		(12') — fine to coarse with trace of fine to medium, subgrounded GRAVEL.	(1.4)
12:28						15-			PASSOSASAN			(14') wet.
	,					25-			or disertation educated to the second se			(20') saturated.
12:40						30-				SW	Dark groy (10YR 4/1), fine to coarse SAND with trace of subrounded GRAVEL.	
											Notes: 1. Total depth of boring 30 feet. 2. Groundwater measured at 12.6 feet. 3. Groundwater monitoring well constructed on	
						35					6/3/04 (see well completion summary).	
						40						
						45						
						50						
						55-						
					,	60-					CONTINUED ON NEXT PAGE	